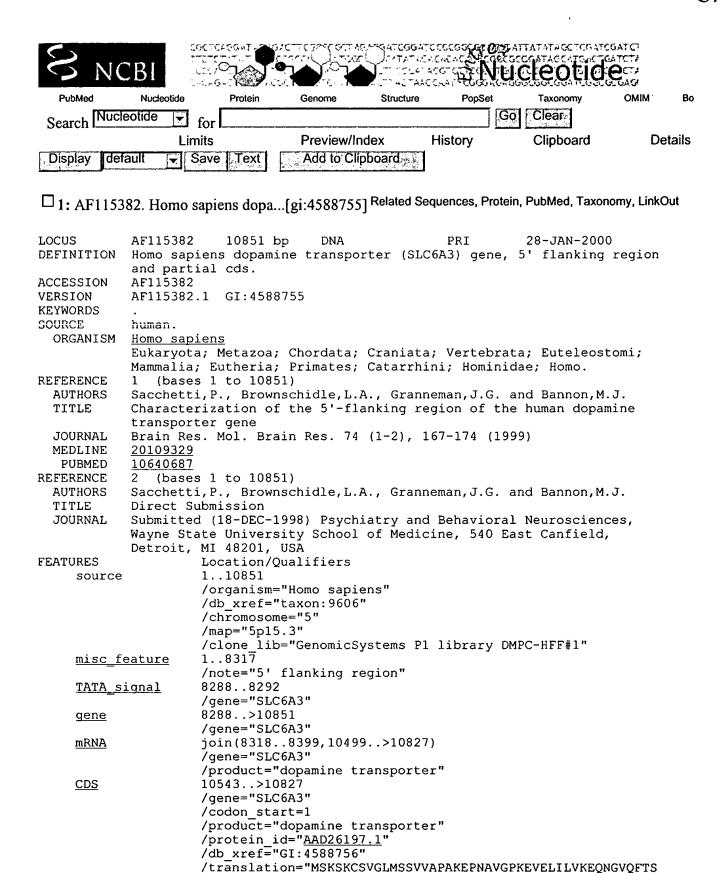
BASE COUNT

ORIGIN

2780 a

2719 с



1 aaaggcgaga ctgaatatgt ttaatagaga catgacagat atttttaaa agacacgaat

STFTNPRQSPVEAQDRETWGKKIDFSCPSLALLWTWPTSGGSPTCATKMVA"

4 others

2527 t

2821 q

```
61 ccaaattcta qagatqaaaa ccacaatqtc tcagatgcaa aatgcactgg ttgagaggag
 121 gqqtqqattc aacatctcag aagaaaagga tacatgaact tgaagacata gatggcagtg
 181 caaactgttc aaaatgaaat aaagaaaaaa gacaaaaaaa tgaaccaagc atcagagaac
 241 tgtgggactt caagccacct aatatgcaag ccataggaat cctcaaaaca gatcatgtct
 301 aaacaatgtc attttatgat agcatcagtt caccaaaagg acaaatgttt atgtacctaa
 361 taacatagct tcataatgaa ttcggcaaaa actgatagaa ctgcaaggag acatagagca
 421 gttcacacaa ttatacttgg agatttcaat acctctttcc caatagttga tagaacagat
 481 acacagaaac ttttaaggat acagaagact tcaaaaaacag tacgaactaa catgacctat
 541 ttqatattta tacaataatt catccaataa tagcagagtg cacattcttt tcaaatgcat
 601 gtgaaaagct taccaagatc gaccacagtc cagaccataa aattcccttt agggattcag
 661 gtcatgtaaa gcaagttctc caacaaagag gcaaataaat ttgataccaa aatgaaaaat
 721 acatttggca aaaaataaag aagcatatcc agacaatctt ctaatatttg gaaactaatc
 781 acatatctaa ataacaatgg gtcaaagagg acatcaaaag ggaaatcaga aaatattttg
 841 aactgaatga aaacaaaaca acatatcaaa cettttggaa tttggctaaa tcagaactta
 901 gaagaaaatc tagacatgaa gcctgcctca gaaaggaata atgatgaaaa attgatggca
 961 gcctccaccc gaagaaatcc catgcgggac tttggaagaa attgaaaagt tgattccaaa
1021 attcatatga aaaagcacag gaccgagaat atgcaaaaca actttgaaaa tgaacaaagt
1081 tgtctgactt acattacctg atttaaaaat gtattacaaa aggaccataa tgaagatagt
1141 gccattttaa tctcctcagg ctgccacaac aaaatacacc agatttgggg gcttaacagc
1201 agacatttgt ttctcacagt tctggagact ggaaatccaa catcaaggca gctgattcag
1261 ttcctgqtqa ggcctctctt cctggcttgc agatggccgc cttcttactc tatcttcaca
1321 tggcagaaag taaaatggag agagetteet ettellataa ggccacagte etectgggtt
1381 atgaccccac cettacaatt taatttaacc taatcacctc ctaaagtccc tatcetccag
1441 ataaagtcac cttgcggggg ttatggcttt aacctatgaa tttgggggta aacaattcag
1501 tccacagcaa gtgtggtatt agcatcaaaa tggattaaca gatcataaaa cagggagccc
1561 agaaataaac ccacacacat acatacaact gacttttcaa caaaggtgca aaagcaactc
1621 agcagaacac tgaacaactg gctcttcgga ggtaaagtgg tgaacttcaa ttggtgtctt
1681 acaccaagct agtttaaaaa tgcattctat gtgtaaatat gcaatctata attttaaaaa
1741 gtttagagga aaacttagga gaaaatcttg atgatcatga atttggtaaa gatttcttaa
1801 atacaacact aaaagcagga tttgtgaaag aaaaatggat aaattcgact tcatcaaaat
1861 taataactet tetetgaaag aatetattaa gagaatgaaa agacagteea agactgggaa
1921 aaatatttgc aaagtaccca tctgataagg gactggtatc cagaatagta aagaactctc
1981 aaagctcaat taaacaaccc aaaggtgcaa aagatttgaa cagacactta acacgaagtg
2041 gcactgatgc agctaacaca tgagaaattg ttcaaagatc acgctcatta gagcagtata
2101 ggagatatta ctgtaaacat attaggatgt ctaaaattta aaagactgac catactaagt
2161 attcattaga atatgaagta actaaaatta tcatacactg ttcatggaaa tataaaatga
2221 tacaactact ttgcaaaaga atttaacagt ttttaaaaaa atagttaaac atatatctta
2281 ccaaatqacc caqccattcc acaactaagt acttettacc taccccaaag taatgagage
2341 ctatgttcaa agacttgcac acaaatgttc atagtagctt tatttgtaac agccagatgt
2401 ccatcaatag gcagatggaa aagccaagta catcatatcc catatccaca caatggatac
2461 tacaaataac taaaagggaa ttaactgccg atgcaatgat gtggattctt ctcaaatatg
2521 ctgaatqcaa aaqaacaqac ccaqaaaaca gtacttactg tataattcta tttatataaa
2581 attctattaa aaacacattg ttctgtaatc atagaaaaca aatcattcca ccattttggg
2641 aggccaaggc gagcttatca cttgaggttg ggagttcaag accagcctgg ccaacatagt
2701 gaaaccctgt ttctactaaa aatacaaaaa ttagctgggt gtggtggcgg gcatctgtaa
2761 teccagetae ttgggagget gaggeaggag aattgettga aettgaggag geaaaggetg
2821 cagtgagetg agategtgee actgeactee ageetaggtg acagagtgag acteegtete
2881 acaaaaagaa aaaaaaaaag agcaaatcag tggttgcctg gggatgggaa gaggtaaaga
2941 gacacagaca gagggaagte agegagggag gagcacegee atcatettet gtgtgatege
3001 gttgccatga coccatcagt cactcaccaa atcgtacact tggaatattg catatccatt
3061 acacctcagc aaggetgttt ttaaaaagac acaaatgeeg agataattac agaaaaaaag
3121 tocaattagt tttgttagga tggtggaatc atgaaaggca teteetaggt eeteeaatgt
3181 tgttcttttt caagattett ttggetacte taggteacee acateteeaa acacatttta
3241 gaaccagctg gttaatttct tcaaaaaagc aagttagaat tttgattgag attgcattga
3301 atctgtatgt caatttatga agaactgaca tctcattaat attgagcctt tcagtcataa
3361 acatacacac tectetgett gtetagaett caaaagttte teacageaat ggattetagg
3421 ttttcggtgc acaagtctcg gatacgttta tccccaagca ttttgtttcg gatgctattg
3481 taagtgaaat tattttaggt tttattttag aattgtttgc tgccagtaca tagaaataca
3541 attggttttc atcagatccc atggccttgc taaattcatt tataaattct agtagttttt
3601 tttgtaaatt cctcaagatt ttctacaaac atgaaatcta ccaagaaaaa tcttgtcatc
3661 aatatttcaa tttttttgaa gootootgot otgtagooag accattogoo actgootatg
3721 actacattta gggccatcct ctggccatcc ctccttggct agatgatgaa cctgatgcat
3781 ggtttgaata tgtgcccact gggaagcttt ctttcactgg tctttcacag aaggccatga
3841 tgacacagco tttcacttto tggtgggggo agtgtgctgt gtatagacac atgtaatcca
```

3901 ggccccaacg catgcatttt ctccgttcaa tgtcataaga aactctcatg tagccagagg 3961 tctgggttaa ggaagcggtc tccatgcagc aagaatgggt gcttgttcat ggaacttacc 4021 gcgcttccag acttgctcaa gccttgtgtc gtaaacattc cactgaggac ggcaggatgc 4081 tgtatacaca acctetgtgg gteegataae aaatagette tgetgggeeg eteagettet 4141 atggtaacag ageteeetga gtttetgeta tggeteaggg etgetettae teaaaaggag 4201 aggacgtatt ttcaggagag cgttcagctc ttaattcaac tgttattttc tgcgctgcct 4261 acaacatete egtetgeeae agaceeteea atteceaetg gttetgeeag ateagtgtte 4321 tcaaagtgtg gttcctgggc cagcagtgtc agtgtcacct gagaactttc tagaaacgca 4381 ggtcctcagg tcccacctca gacctactga acctgcgtct ctaaggatgg agcgaggtga 4441 tctgtgcctc ctatgcatgt aaaggtttat gtaggtgact gtgatgccag ctaaagtcgg 4501 agaacaacac cagattgtgt ggcctcctgg ggcagcagtt tgcccatcca gaccagcagc 4561 agaatettte ttaetetggg eeetaeteaa aaceaaaege tttatgaaga acacaaaea 4621 ggccagagaa gcatccccga gtgtcttgca cctcaccttg caaatcggaa gagcctcacc 4681 aggtatgata cttctttctt agtggtagtc ttgcttgcca gagacagcgt gttttctttc 4741 attttggata tatattttga ccaatcagac caatggaccc acagaaagtt caccaaggtg 4801 gcaggttttg aaaatgtgtt attttctctt tcaattttta gcaagcacgt gtcttaccaa 4861 ggcatcttgg cattittcat titttgctcc ccaggitgat tcagcctgat gicatcagtg 4921 tggcagacca ctgtgacatg ctgtgcagtg gcaagaccat caagatgtct gtgactaaaa 4981 ccagcagtga gccggaaaat gatacagctc tgagagaaga cattggaagt gtactgctgt 5041 ccctgccatg cgagaggaaa ctatcttcct cctgaggtgg cccccgggga gggcacaggg 5101 gtgcagcagt gagcagggcc tcctgcctgg agccagcgcc ttccatcatt ctcagaacct 5161 ggacagacaa ggtctgggat ctgacctccc acacccctgg acaaaagcca ctcctgccta 5221 ctggtcccct cacccttgcc ctccccaage cccctacccc cagggccttc ccagcaccag 5281 tgagagtcag ggtctttaaa gtctgagctg ggctccctgg gacttcctct gaaagcacac 5341 aggacaccct caatatagta aatacgcagg caggtaaatg actgtcatct cactgccact 5401 gtccttgtcc cctctcagat acagcactca tggggggagc atccacgctg tcttccaaat 5461 caggegagae acggegeaac atccageact gagggeetee caggaggeag cacecaagga 5521 gggggggacc cgtggggcaa ggttgctttg gagacagcag tcagtggcca ggggctcctt 5581 gtgggctctg cagctgcggt cccagccagt ggggagaggt gccgagcatg ggcaggaagt 5641 gcagaggcag gggggctcca cctgcctgca cccaacgccc tgagcccaca gcagccatag 5701 cagcaaccac aatgataata aagccgactt ggcatttagg gcaaagttcc aagcatgcaa 5761 aggtcggccg tttgatcagg tctgatcagc tcataaccac actgcttcta cctgcacagt 5821 tcacggagca ttcctgttgt gggaggatgg agacccatgg gtctggcagc tgcgctttct 5881 ctgtgtcatc catgagecca actecegeag ttagtttgtt ettagageae ecaaagetee 5941 tttatcctaa ttcatgtggt tggaagtcgg ggttgaggca ggggtggagg aatgctcttt 6001 gtcttggcag agtgcaggtt acatgcgtgt gatcactcag tggcccctcc tgagtgtggc 6061 aggtgcattc tetgtgtget actggteagt aaggatgtgg etgeetggat etgtgtgace 6121 totagtooot goacettoot gootgtacco tgttagettt gggtcacaat tetgegetee 6181 tgcagcgctt gcaatccctt cccaaacgct gtttgcctgt gtgttgtttt gtttcgagac 6241 agggteteat cetgtggeee atggegeaat eteageteae tacaacetee aceteeeage 6301 ttcaagctat tctcccacct ctgcctcccc agtagctggg actacaggtg tgggccacca 6361 tgcctggcta atttttttt tcaaagtcag ggttttgcca tgtggcccag gctggtctca 6421 aactcctggc ctcaagagat cctccttcct cggcctccca gagtgctggg attacaagcg 6481 tgagccctca ctcctggcct gtgtattttt aatatacctg aacatccatt ctctctqtqt 6541 gttttattta acagcctccc ttagtcacct gcaaagtctt ttccttggga gactgtttcc 6601 tcaaccctgc tgctctgggg ccaagccctg gctcactcct ttttattgaa acctgtgcca 6661 tggagataat aggggtagag agatecette tgtggeagee actgacacae tacagetteg 6721 aggtggcaca tececetete etgaagteee eteaceteee tggegatgaa gteeeaeeee 6781 tgatgggagg tggtgtcagg aggcettcag gtggtcagge caggaggget ccaccetgag 6841 gaatgggacc agtgccctca taaaacagac cccggagagc tctccccagc ccctagcgtg 6901 gggagataca gggagagaac tgtctgcaac cccgaagcgg ccctcaccag acacagagtc 6961 ggccaggcct tggcctcggg acaccggaac cgttagaact gaaggcttct gtgtgagccc 7021 ccaggctgtg gagttttttg tcatggcagc cccagggggt cactaggctc ccacttgatt 7081 ccaactcage gtgaagtcae ageeetgagt geettetgee tgggtgeeag eeeeggagee 7141 ggggagcggg ggagcggggg gcggggaggg gagtggtggt gtgcggggag tgcggggcgg 7201 gcgcaggggg tggggcaccg cgctgcgggc gggtactgcg gagtcaggca ccaagggtcc 7261 ctgcctccct cactgctgag cgcgggctgc aggctggaat ggctggagag ccccagggct 7321 cgcctggacg cccagggcag ggtgctcacg ggagcatcga gggtacacgg ggaggaacgc 7381 cggggttegg gegaeeetag gggegaegea cagagetggg egeggeeaet caeeteggtg 7441 cettetaagg acetggacat cetgggeett ggeggeetgg gggeteeatt eeteegegeg 7501 ctgaatggaa gaaatcccgc ccgggcatct cggaaggaaa gcctcggagt ccattcggca 7561 ctggagccgg ataccaaccg ccaggctttc caggcccgtc ccgggaaatg ttttcttagg 7621 cgagtgcgag gcgggccctt cggttccgat gcaggcgcaa tagatgccgg caaggcgggg 7681 ataggetagg ggaeeteggt egeetegagg tegeggagae eecaaggeea eggaaggaee

```
7741 egegteteeg eageeegeae geegggaage gtgeagagte eteggegggg teeegageee
     7801 getggteaga gegtggageg geggggtggg agggaegtgg teeceagage geggggeeae
     7861 cgtaggggcc cctgatgggg agggagggaa gggtcggccc gacggggtcc cagcagttcc
     7921 ccgcgcgcag ccgctcggct ccctccccgt ccagctggga gccgccagcc ctgggcgtcc
     7981 gaagatagcg ggtgcccggg gcagccccca ggggtgcggg cgagggcgca gggccggccc
     8041 agacagttcc cgcgtggaag gcgcccgtct agatccgcga cgtctcggac ccccaggccc
     8101 ccgcaccccg tgtccgaggc tccgggacgc gcaggacagt ggagccgttgg ccgccgcttg
    8161 ctcccagcca tctgcgtccg ggaagcgggg gcgggggcgc ggcccgggga ggtgaggagg
    8221 aggagecagg aegegaggge gacecegtee gegggaggge ggggegggge ggacectgte
    8341 cttcgcggaa cgctctcggc gccaggactc gcgtgcaaag cccaggcccg ggcggccagg
    8401 tgaggccage gtcgctcgcg gcatcggggc gccccgctcc ttccgcagac cccgaagtgg
    8461 ggcgcagggg cgggggccgg gggccgggca cagtctgggg tccccgcgtc ccgcagaccg
    8521 cgccgtctcc aaagtcgcca acagtcgcgg gtgccgagcg ccccccgata gcgccacatg
    8581 ggaccetgag geegteegag gegegaggag ggtgeaggge tgeeeetgge eeegeteeaa
    8641 gctcagaacc gggtgggcac ctggtgcagt caccggctta agggacgcgt gggtgtctat
    8701 ggctgtgact cgggggtctg gtttcttctc gtggaattaa cctactaagg gtgcggcgca
     8761 toccagator gatoggaatg ggttttgtar accgrogete catctogrog gggetttgtr
     8821 tgtgttgggg gtggtggcgg gcgccggctg cgcgctggtg ctctgggcaa ggcggggaag
    8881 ccgggcgagg actcgccagg cagcgccgct tcttgttctg ggcgcggtga ggaaggacgc
    8941 tttctaacgg gccacatttt gctgtgtaga ccaaaatcgc ctctgaggcc ccgcgttcag
     9001 gageggggte aggtggeece agggeggegg eggettgeeg gaaactegeg ageteegeae
    9061 ccgacgccct ctcccaacgc ggcctcctgc tcgcgccgcg gaaccccttc gtcgggtgtt
    9121 ttacccaccg gaggggtcgt gccggttgag gttgtcaccg ggtgcgtggc atagctcgtg
    9181 atagctcatg ggtgaggttt tgtgcaaact tggatgcagg gaaagttgcc tgttagagcc
     9241 tecacetgeg acetgettea gtegttgtgt gtgtgtgege acetgtgtga gtgtgagtgt
     9301 gtatgtgtgt aagtgtatgt gctcgcctgt gtgtgtgtga gtgtgtatgt gtgtttgtga
     9361 gtctgtgtgt gtctgtgtgt ctgtgtgtgc gtgcgctcga ctgaaacacg ctgctgctgg
     9421 atccaaatga cagaagtcgc cctggctggg gcggtgtaga cgctcctgct ctcctgctca
     9481 gcgttgcagg ggggtttatg taccgtttgg acangatttc ccgggttacc ctgctggccc
     9541 aagaactaat teeegenang aaaceetgte cateeteege eeaactetet caegeggggt
     9601 qqtqccacct qccctaagtq gatqtqqctt gtacanacac tttttgagga agcagttgtg
     9661 atggttatgt ctaaactttc tttaacagtg gctgattttg ctttatataa attttgttct
     9721 ttattaactg agtataaaca atacaagccc aggcttggtg gctcatgcct gtcatctcag
     9781 cactttggga ggctgaggca ggaggatcgc ttgagaccag gagttcaaaa ccagccttgg
     9841 caacaatagt cagaccctgt ctctacaaga aaacaacaac aacaacaaaa aaacacacac
     9901 aaaaataact tagceggtge tgtggtgeac acetgtagte teagetgete aggaggetga
    9961 ggtgcaagga tcacttgaac ctaggaggtt gaggcagtga gttgtaatca caactgtatt
    10021 ccatcctggg tgacagagcg agacctcatg ttaaaaaaaga aaaaaaaaag aaaaaagaat
   10081 acagatgaac agtcatgaag acattattga atgctcttag aagattgtaa aattgctctc
   10141 tggaagtgtg ggggaaggtg gaagtgatat ccatgcattg ttagtagaaa gccacgctag
    10201 agctcacaca gccttgcact ttgataggag tggggagggg tgcaggggaa ggaggagcaa
   10261 accagagtgt ctgtcttgag gcctccatgg gccagtgccc cagccctgtg gtgagggctg
   10321 gcattcccag ctcccgtgcc ccagctgtac catctccagg cgtgagaagc acccatcctt
   10381 teccagagga atgecegtga atgetteggg gtetgecate egeaacaggt atgteeetag
   10441 ccctggctga tgaattgttg cgttcctgtt gtgtgtttat ttttcatatt ggctgaagac
    10501 caagagggaa gaagcacaga atteteaaet eecagtgtge eeatgagtaa gagcaaatge
    10561 teegtgggae teatgtette egtggtggee eeggetaagg ageceaatge egtgggeeeg
    10621 aaggaggtgg agctcatcct tgtcaaggag cagaacggag tgcagttcac cagttccacc
    10681 ttcaccaacc cgcggcagag ccccgtggag gcccaggatc gggagacctg gggcaagaag
    10741 ategatttet cetgteegte attggetttg etgtggaeet ggeeaaegte tggeggttee
    10801 cctacctgtg ctacaaaaat ggtggcggta atcccatctc agcttccctg a
11
```

Revised: October 24, 2001.

<u>Disclaimer | Write to the Help Desk</u> <u>NCBI | NLM | NIH</u>